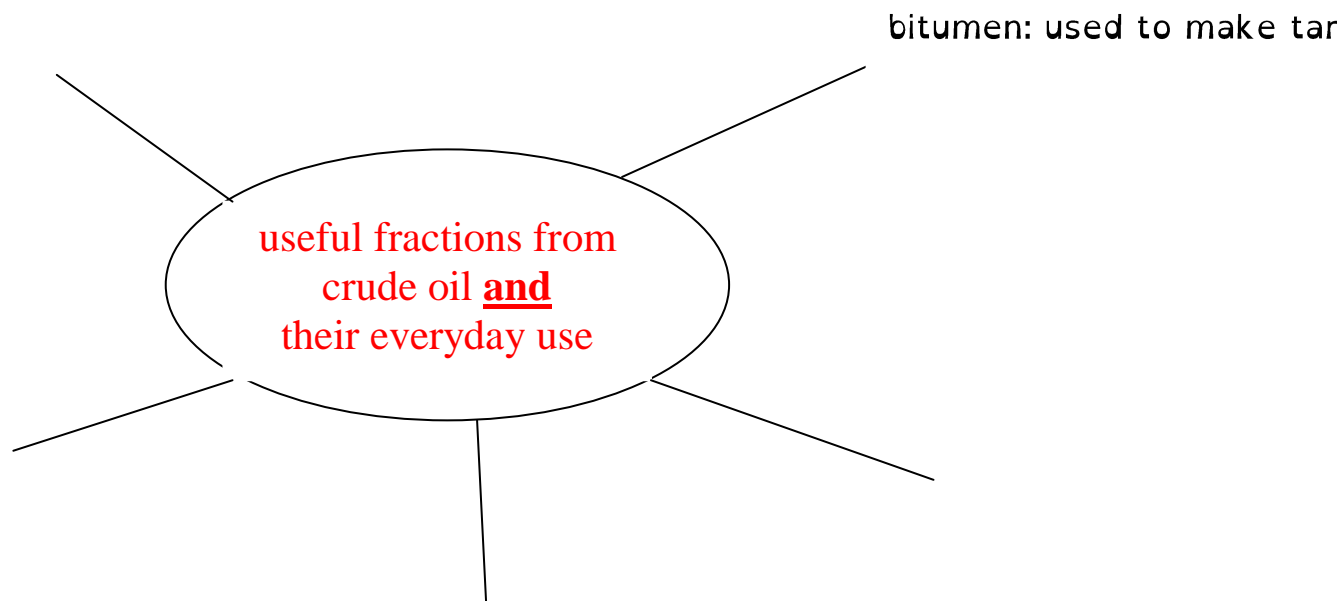


Crystal Ball questions on Fractional Distillation

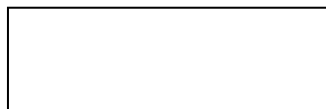
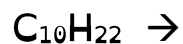
All of the following questions have not (as yet!) appeared in the NCEA Level 1 Exams

- 1) Complete the spidergram below stating i) useful fractions from crude oil AND ii) their everyday use
(1 example has been provided for you)



2) i) Define cracking.

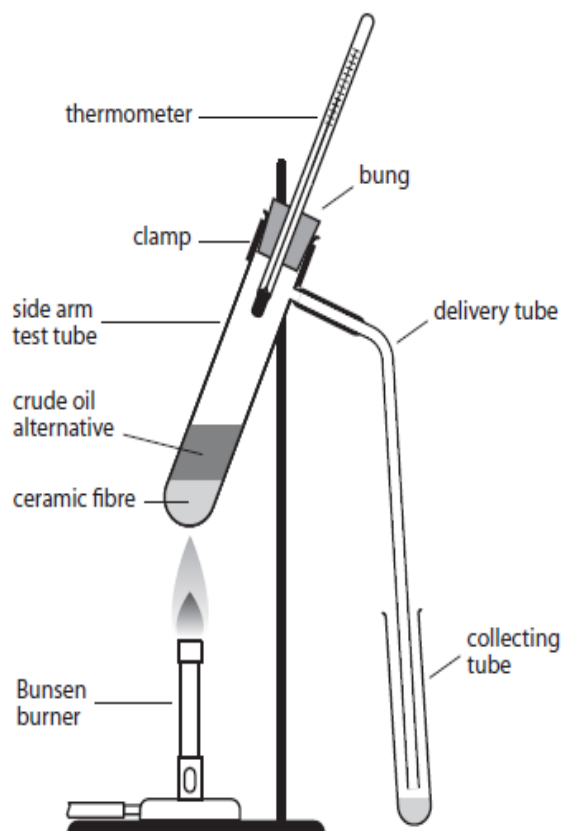
ii) Complete the equation showing the cracking of decane to produce ethene and octane.



+



3)



The apparatus shown was used to carry out fractional distillation in the lab.

The students collected 4 different fractions at the following temperatures

1 Room temperature to 100 °C

2 100–150 °C

3 150–200 °C

4 200–250 °C

There was a residue left in the side arm test tube.

Contrast the 4 different fractions and residue in terms of trends in viscosity, colour and flammability.

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